

Warda Drici
100 City Parkway, Suite 700
Las Vegas, Nevada 89106
Hydrologist

EXPERIENCE SUMMARY

Ms. Drici has more than 26 years of experience as a hydrologist. She is currently working for the Southern Nevada Water Authority on groundwater development projects. Previously, Ms. Drici worked for Parsons Corporation on the same projects. She has been involved in the analysis of groundwater data and modeling activities in support of water-rights applications and water-resource development. She also served as an expert witness at the State's water-right hearings for Tikaboo and Three Lakes valleys.

Previously, Ms. Drici worked on the Underground Test Area Project (Nevada Test Site), a Department of Energy project for more than 10 years. She led the analysis of groundwater data and preparation of numerous technical documents. Prior to joining the Underground Testing Area Project, Ms. Drici participated in the high-level nuclear waste site selection activities. For the Office of Nuclear Waste Isolation, she developed groundwater models for the salt domes of Mississippi and Cypress Fee and for the bedded salts of Deaf Smith County, Texas.

Her experience includes water-resource assessment and management, characterization of hazardous sites, design of dewatering and landfill leachate collection systems. She also has experience in optimal groundwater management; well test design and analysis, mapping, computer programming and various data analysis techniques. She has used several groundwater and surface water codes including FEMFLOW3D, MODFLOW, MOC, Fracman, Sutra, Gram, Plasm, Help, QUAL2E, and Aqtsolv. She is also familiar with various other computer applications including PEST, UCODE, Microsoft Office, and ArcGIS. She authored and contributed to numerous technical documents.

EDUCATION

M.S. Petroleum Engineering, University of Kansas, 1987
M.S. Petroleum Management, University of Kansas, 1984 (Honors)
B.S. Mathematics, University of Algiers, 1977

SPECIAL TRAINING

Introduction to ArcGIS I, ESRI, Las Vegas, NV, July 15 and 16, 2004
Fundamentals of Remote Sensing, Space Imaging, Las Vegas, NV June 22 and 23, 2004
FRACMAN Software Training, Golder Associates, Denver, CO, 2001
Myers Briggs Training, IT Corporation, Las Vegas, NV, 2001
Franklin Time Management, IT Corporation, Las Vegas, NV, 1997
Covey's Seven Habits of Highly Effective People, IT Corporation, Las Vegas, NV, 1996
Project Management Training, The Earth Technology Corporation, Long Beach, CA, 1989
Project Management Training, The Earth Technology Corp., Long Beach, CA, 1989
Marketing Course, Kay Lenz Marketing Management Associates, Long Beach, CA, 1988
Technical Writing Training Course, Shipley Associates, Long Beach, CA, 1988

AWARDS AND SPECIAL ACTIVITIES

- Recipient of SNWA Outstanding Performance Award - 2009

- Qualified as an expert witness in Groundwater Hydrology, with emphasis on modeling at the Three Lakes Valley South Water Hearings held in Carson City, Nevada in November-December 2005.
- Member of Quality Assessment Committee, Southern Nevada Water Authority.
- Member of Steering Committee for two years, the Earth Technology Corporation.
- Recipient of Key Employee Incentive Program Award in 1988, the Earth Technology Corporation
- Recipient of Top Achiever Bonus Program in 1990, the Earth Technology Corporation
- Recipient of the Quality Award in 1996, IT Corporation.
- Recipient of the Quality Award in 2002 and 2003, Shaw Environmental

EXPERIENCE

August 2010 – Present. Southern Nevada Water Authority, Las Vegas, NV, Hydrologist

2004 – August 2010. Parsons Corp., Las Vegas, NV, Senior Hydrologist

2003 – 2004. INTERA Inc., Las Vegas, NV; Senior Hydrogeologist

2002 – 2003. Shaw Environmental Inc., Las Vegas, NV; Senior Hydrogeologist

1985 – 2002. International Technology Corporation, Las Vegas, NV; Senior Hydrogeologist

1984 – 1985. GeoTrans Inc., Las Vegas, NV; Senior Hydrogeologist

1992 – 1994. Professional Analysis, Inc., Las Vegas, NV; Environmental Engineer

1990 – 1992. The Earth Technology Corporation, Las Vegas, NV; Senior Hydrogeologist

1986 – 1992. The Earth Technology Corporation, Long Beach, CA Project Hydrogeologist

1985 – 1986. Kansas Geological Survey, Lawrence, KS Visiting Research Associate

1982 – 1985. Kansas Geological Survey, Lawrence, KS Research Assistant

1981 – 1983. Dept. of Chemical and Petroleum Engineering, University of Kansas, Lawrence, KS Teaching Assistant

1981 – 1982. Supportive Educational Services, University of Kansas, Lawrence, KS Mathematics and French Tutor

PUBLICATIONS

Southern Nevada Water Authority, 2010, Addendum to the groundwater flow model for the Central Carbonate-Rock Province—Clark, Lincoln, and White Pine Counties Groundwater Development Project: Prepared in cooperation with the Bureau of Land Management. Southern Nevada Water Authority, Las Vegas, Nevada, 48 p. - Co-author.

Southern Nevada Water Authority, 2010, Simulation of groundwater development scenarios using the transient numerical model of groundwater flow for the Central Carbonate-Rock Province—Clark, Lincoln, and White Pine Counties Groundwater Development Project: Prepared in cooperation with the Bureau of Land Management. Southern Nevada Water Authority, Las Vegas, Nevada, 96 p. - Co-author.

Southern Nevada Water Authority, 2009, Simulation of groundwater development scenarios using the transient numerical model of groundwater flow for the Central Carbonate-Rock Province—Clark, Lincoln, and White Pine Counties Groundwater Development: Prepared by Southern Nevada Water Authority, in cooperation with the U.S. Bureau of Land Management. Las Vegas, Nevada, 82 p. - Co-author.

Southern Nevada Water Authority, 2009, Transient numerical model of groundwater flow for the Central Carbonate-Rock Province—Clark, Lincoln, and White Pine Counties Groundwater

Development Project. Prepared in cooperation with the Bureau of Land Management: Southern Nevada Water Authority, Las Vegas, Nevada, 394 p. Draft Report - Co-author.

Southern Nevada Water Authority, 2009, Conceptual model of groundwater flow for the Central Carbonate-Rock Province—Clark, Lincoln, and White Pine Counties Groundwater Development Project: Southern Nevada Water Authority, Las Vegas, Nevada, 416 p. Draft Report - Co-author.

Southern Nevada Water Authority. 2007. Part A Regional-Scale Evaluation of Natural Recharge, Discharge, and Interbasin Flow for the White River Flow System in “Water-Resources Assessment and Hydrogeologic Report for Cave, Dry Lake, and Delamar Valleys - Presentation to the Office of the Nevada State Engineer.” Provided technical support to author.

Southern Nevada Water Authority. 2005. Hydrogeologic Report in Support of Southern Nevada Water Authority’s Proposed Groundwater Development Project in Three Lakes Valley South, Clark County, Nevada. Change in Point-of-Diversion Applications 72787 – 72797. Co-author.

Southern Nevada Water Authority. 2006. Boundary Fluxes and Predevelopment Steady-State Water Budget for the Spring Valley Model, Volume 7 - Expert report for Spring Valley Hearing. Author.

Southern Nevada Water Authority. 2006. Derivation of a Spatial Distribution of Areal Recharge From Estimates Based on Estimates Reported in Reconnaissance Investigation Reports for the Spring Valley Area Recharge, Volume 2 - Expert report for Spring Valley Hearing. Co-author.

Southern Nevada Water Authority. 2006. Aquifer-Properties Data Compilation, Volume 1 - Expert report for Spring Valley Hearing. Co-author.

Rehfeldt, K., **W. Drici**, D. Sloop, J. Watrus, T. Beard, M. Sully, C. Benedict, A. Wolfsbergand, P. Reimus. 2003. Contaminant Transport Parameters

for the Groundwater Flow and Contaminant Transport Model of Corrective Action Units 101 and 102: Central and Western Pahute Mesa, Nye County, Nevada, Shaw/13052-201, Rev. 0. Las Vegas, NV: Shaw Environmental, Inc.

Rehfeldt, K., **W. Drici**, B. Lester, D. Sloop, J. Watrus, T. Beard, M. Sully, W. Fryer, and C. Benedict. 2003. Hydrologic Data for the Groundwater Flow and Contaminant Transport Model of Corrective Action Units 101 and 102: Central and Western Pahute Mesa, Nye County, Nevada, Rev.0, Shaw/13052,-204. Las Vegas, NV: Shaw Environmental, Inc.

Coauthor of many reports and work plans produced for the Underground Project Area Project of the Nevada Test Site (U.S. Department of Energy) between 1996 and present. These include work Plans, Value of Information Analysis reports, well development and testing data analysis reports, data analysis and modeling reports, and presentations to the Department of Energy and State of Nevada.

Drici, O., Garey, C. and T.S Buqo, 1993, Hydrology and Steady-State Ground-Water Model Pahroc Valley, Lincoln and Nye Counties, Nevada: Las Vegas Valley Water District Cooperative Water Project, Series Report No. 10.

Buqo, T.S., **O. Drici** and D.B. Goings, 1992, Hydrology and Steady-State Ground-Water Model Coyote Spring Valley, Clark and Lincoln Counties, Nevada: Las Vegas Valley Water District Cooperative Water Project, Series Report No. 3.

Buqo, T.S., **O. Drici** and D.B. Goings, 1992, Hydrology and Steady-State Ground-Water Model of Three-Lakes Valley South, Clark County, Nevada: Las Vegas Valley Water District Cooperative Water Project, Series Report No. 4.

Garey, C., **Drici, O.** and T.S. Buqo, February 1991, "Cooperative Water Project: Water for Nevada's Future - Pahrnagat Valley", Draft Report prepared by The Earth Technology Corporation for The Las Vegas Valley Water District.

Heidari, M., J. Sadeghipour, and **O. Drici**, "Velocity Control as a Tool for Optimal Plume Contain-

ment in the Equus Beds Aquifer, Kansas." *Water Resources Bulletin*, April 1987, Vol. 23, No. 2

Drici, O., and S. Vossoughi, "Catalytic Effects of Heavy Metal Oxides on Crude Oil Combustion." Presented at the 92nd National AIChE meeting, Houston, TX, March 1985; published in *Journal of Petroleum Technology*, November, 1987.

Drici, O., M. Heidari, and J. Sadeghipour, "Application of a Groundwater Quality Management Model to the Equus Beds Aquifer in Kansas." An unpublished paper presented at the Sixth National Symposium and Exposition on Aquifer Restoration and Groundwater Monitoring Conference (NWWA Conference).

Heidari, M., **O. Drici**, and J. Sadeghipour, "Optimal Strategy for Management of an Oil-Brine Polluted Aquifer near Wichita, Kansas." *Kansas Geological Survey Report*, 1986.

Drici, O., and S. Vossoughi, "Study of the Surface Area Effect on Crude Oil Combustion by Thermal Analysis Techniques." *Journal of Petroleum Technology*, April, 1985.

Drici, O., and S. Vossoughi, "Study of the Surface Area Effect on Crude Oil Combustion by Thermal Analysis Techniques." *Proceedings of the 13th North American Thermal Society Conference*, Philadelphia, PA Sept., 1984.